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#### ABSTRACT

The study has examined variations in family socialization practices among Anglo-Americans and Mexican-Americans and the effect of these practices on achievement values, self-concept, and educational achievement. Data were collected and analyzed on 102 junior high school students and their families. Factor analysis techniques and Guttmen Scaling were used to generate a series of measures that describe the achievement training and independence training that the child experiences in the home, his self concept, and achievement value orientations. The Mexican-Americans studied apparently experienced much less independence training than did their Anglo peers. Mexican-American boys in particular were granted little autonomy in decision making: had little confidence in their ability to succeed in school, and were fatalistic about the future despite the high level of achievement training to thich they are exposed in the home. Results suggest that direct attempts to encourage greater academic effort on the part of the student may actually inhibit academic performance. In contrast, parental independence training results in significant gains in achievement among both groups. This is accomplished by increasing the student's confidence in coping with his physical and social environment, especially with the classroom situation where students are expected to perform independently. (Author/JME)

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FAMILY SOCIALIZATION AND EDUCATIONAL ACHIEVEMENT IN TWO C'TTURES: MEXICAN-AMERICAN AND MIGLO-AMERICAN

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#### ABSTRACT

The study has examined variations in family socialization practices among Anglo-Americans and Mexican-Americans and the affect of these practices on achievement values, self-concept, and educational achievement.

Data were collected and analyzed on 102 junior high school students and their families. Factor analytic techniques and Guttmen scaling were used to generate a series of measures that describe the achievement training and independence training that the child experiences in the home, his self-concept, and achievement value orientations.

The Mexican-Americans studied apparently experienced much less independence training than did their Anglo peers. Mexican-American boys in particular were granted little autonomy in decision making. In addition, these same students were found to have little confidence in their ability to succeed in school and to be somewhat fatalistic about their future despite the high level of achievement training to which they are exposed in the home.

The results of a path analysis suggest that direct attempts to encourage greater academic effort on the part of the student may actually inhibit academic performance. In contrast, parental independence training results in significant gains in achievement among both groups of students. This is accomplished by increasing the student's confidence in coping with his physical and social environment especially the classroom situation where students are expected to perform independently.



# FAMILY SOCIALIZATION AND EDUCATIONAL ACHIEVEMENT IN TWO CULTURES: MEXICAN-AMERICAN AND ANGLO-AMERICAN

Family structure has been shown to be one of the most important determinants of achievement motivation and educational attainment. Achievement orientation appears to be the result of two types of family socialization practices; achievement training which occurs in the home when parents set high goals for their children and communicate to them expectations for high achievement; and independence training which occurs when parents encourage self-reliance by granting their children enough autonomy to make their own decisions and to accept responsibility for success or failure. Though achievement training, parents attempt to foster the desire in their children to do things well; through independence training, they encourage them to do things on their own initiative.

McClelland concluded as a result of his studies of achievement motivation that:

The data we have to date strongly support the hypothesis that achievement motives develop in cultures and in families where there is an emphasis on the independent development of the individual. In contrast, low achievement motivation is associated with families in which the child is more dependent on his parents and subordinate in importance to them. 4

As a result of this socialization the child develops his self-concept. Self-concept, variously called self-image or self-esteem, is a personality factor that evolves out of one's sociocultural milieu. An eight-year study conducted by Coopersmith indicated that the important factors related to



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high self-esteem were the closeness of the relationship between the child and his parents and the type of control or discipline employed by the parents. Coopersmith also reported that youngsters who had high self-esteem set higher standards for themselves and come closer to achieving these standards than did youngsters with low self-esteem.

Additional evidence of family influence on self-concept of ability is provided by several other studies. Jourard and Remy demonstrated that self-appraisal by children is highly related to their perception of their parents' appraisal of them. Also, Ausubel found that the level of children's aspirations, their frustrations, their ideational independence from their parents, and the maturity of their personalities were all related to the children's perceptions of their parents' valuation of them. Brookover and Thomas also found self-concept of ability to be significantly related to the perceived evaluation of themselves by significant others, notably parents.

A number of studies have documented the relationship between the child's self-concept and his performance in school. Studies by Jersild, Reeder, Reeder, Stevens, Shaw and others, and Brookover and Thomas all demonstrate a significant relationship between student achievement and positive self-image.

Rosen found the achievement syndrome to be highly related to ethnicity and to social class. His comparative study of the cultures of six ethnic groups in the United States revealed a number of important differences in value orientations among white protestants, Jews, Greeks, southern Italians, French-Canadians, and Negroes. Also studies by Saunders, Kluckhohn and Strodtbeck, Demos, Manuel, and Schwartz have revealed important differences in motivation, value orientations, and aspiration levels between Mexican-Americans and the dominant Anglo culture.



When social classes are compared on achievement orientation, again important differences are observed. Hyman states that lower class families appear to place less stress on success in achieving traditional goals related to social mobility. Miller and Reissman corroborate these differences in value orientations between working class and middle class families. They characterize the working class as desiring stability and security, and as pragmatic and anti-intellectual. Sewell, Haller, and Straus, also found the levels of educational and occupational aspirations of high school seniors to be positively related to socioeconomic status even when intelligence was controlled.

The present study was undertaken in order to explore differences in achievement orientation and achievement between Mexican-American and Anglo-American students. Also, it has attempted to ascertain the extent to which these differences are a function of family socialization practices related to ethnicity and to social class.

#### Causal Model

If we focus on the process by which family socialization practices affect achievement values, self-concept, and ultimately educational achievement, a causal model can be explicated. The hypothesized structure is outlined in Figures 1 and 2 for Anglo-Amierican and for Mexican-American students respectively.

FIGURE 1

FIGURE 2



Research cited earlier indicates that educational achievement is highly affected by the student's self-concept of his ability. This factor is in turn affected by the student's achievement value orientation, in particular whether or not he believes in the efficacy of manipulating his physical and social environment to his advantage. Value orientations, however, result largely from socialization practices such as achievement training and independence training that occur in the cultural setting of the home. Finally Elder has demonstrated that these child-rearing practices vary with the family's socioeconomic and ethnic status as well as with the child's sex. Rosen also found achievement values to be highly related to ethnicity and social class. It is this causal structure that is depicted in Figures 1 and 2.

The figures depict linear, additive, asymmetric causal-relationships hypothesized to exist among a set of variables. All but the first four variables are considered to be endogenous and as such to be completely determined by variables included in the model as well as by a residual variable. This residual variable represents the effects of all other variables not included in the model that cause variation in an endogenous variable. The residual variable is assumed to be uncorrelated with the other variables that determine the endogenous variable. Path coefficients shown along side of each arrow in Figures 1 and 2 are standardized partial regression coefficients. Double headed arrows link the three exogenous variables, namely, sex, father's education, and language usage. No attempt is made to account for variation in these variables since they are considered to be influenced by other variables outside of the system.



### Methodology

Las Cruces, New Mexico was chosen as the site for this study. Since this city of over 47,000 is located fifty miles from the Mexican border, about forty percent of the population residing there are of Mexican origin. Despite the fact that the educational level of Mexican-Americans in Las Cruces is about the same as in the rest of the southwest, twenty percent of the Mexican-American males in the labor force are employed in professional, managerial, and administrative occupations, about double the proportion falling into this category in the southwestern states as a whole. At the same time three-fourths of the Mexican-American males in the labor force occupy jobs as unskilled and skilled labor, about the same proportion as for other urban areas of the southewst.

For purposes of this study a population of all families who had at least three children in the public schools, one at each level, was identified. Such a population permitted the introduction of a control for family size which would have otherwise differed markedly between Anglo-American and Mexican-American families. Such a control was important because studies by Rosen and Elder indicate that independence training and achievement motivation are highly influenced by size of family.

After this population had been stratified according to nationality and language usage, a stratified random sample of 163 families was drawn. In addition to a family interview, school age children from these families were asked to complete a questionnaire. Scores from the Iowa Test of Basic Skills which was alministered in the Spring of 1968 by the school system were also recorded. The present study was restricted to data obtained from the junior



high school students in the sample. In all, complete data were obtained on 102 students; 69 Mexican-Americans, 33 Anglo-Americans.

Scales were developed by separate principal components analysis of the sets of questions designed to measure family language usage, self-concept of ability, parental achievement training, and achievement value orientations. 31 All but two of these concepts were found to be unidimensional. The questions used to measure achievement training were found to load on four separate factors: parental stress on academic achievement, parental assistance with schoolwork, parental stress on finishing high school, and stress on attending college. The first factor score was used as a measure of achievement training in this study. 32 Similarly, the achievement value orientations were found to load on the following four underlying factors: fatalism versus activism, occupational primacy, planning, and striving orientation.

The fatalism-activism factor score was used as a measure of the student's onfidence in dealing with his physical and social environment.

Independence training was measured by a Guttman scale developed by Elder. 33 Father's ucation was used as a measure of social class. The composite score on the Iowa Test of Basic Skills was used as a measure of achievement. Tables 1 and 2 contain the means, standard deviations and correlations for each variable for Anglo-American and Mexican-American students, respectively.

TABLE 1

TABLE 2



#### Findings

Path coefficients were estimated for Anglo-American and for Mexican-American students separately. The results are shown in Tables 3 and 4. Variables included in the model account for 46 percent of the variation in achievement among Anglo-American junior high school students. In the case of Mexican-American students 34 percent of the variation in achievement is accounted for by variables in the model. This suggests that other variables not included in the model, such as school related variables, have more of an influence on the achievement of Mexican-American students than they do on Angl -American students. Such an interpretation is supported by the findings of the Equality of Educational Opportunity study. 34

#### TABLE 3

## TABLE 4

Zero order correlations can be interpreted as the total effect of an independent variable on a dependent variable. This total effect is composed of a direct effect as measured by the path coefficient; an indirect effect through other variables, for example, father's education affects independence training which in turn affects achievement; and a joint or spurious effect that arises out of the mutual correlation of the dependent and independent variables with other variables that precede them in the model. Tables 5 and 6 provide breakdowns for Anglo-American and Mexican-American students, respectively, of the total effect of each exogenous and endogenous variable in the model on achievement.

TABLE 5

TABLE 6



Self-concept of ability is seen to have a large direct effect on achievement for both groups of students. Path coefficients are .55 and .43 for Mexican-American and Anglo-American students, respectively. Moreover, Tables 1 and 2 reveal that the mean self-concept scores for the two groups of students are significantly different. The confidence of Mexican-American students in their ability of succeed in high school and college and their estimate of their own ability in comparison to their peers was found to be significantly below that of their Anglo-American classmates.

These differences in self-concept are probably the result of family environment and school experiences. Coopersmith found self-esteem to be related to the type of discipline employed by parents. The path coefficients in Tables 3 and 4 partially supports this finding. Among Anglo-American students the path coefficient for independence training and self-concept is .37 indicating that among this group of students that student self-concept is enhanced by parental independence training. In contrast among Mexican-American families self-concept is enhanced by achievement training while independence training has a small negative effect on this variable. Also self-concept is higher among Mexican-American students who are confident of their ability to manipulate the environment to their advantage. The path coefficient linking activism-mastery to self-concept is .33.

This suggests that encouraging minority students to work independently may not be enough to prepare them for experiences in the school that result from their ascribed minority group status and the difficulties and frustrations of attempting to compete with their Anglo-American peers. A study by McDavid suggests that success in school may result in a more positive



self-image which in turn may lead to increased success in the school.<sup>38</sup> Schwartz found the gap between the self-esteem of Mexican- and Anglo-American students to be greater at the senior high school level than at the junior high level.<sup>39</sup> She interpreted this finding as suggesting that Mexican-American students suffer a loss of self-esteem as their awareness of their minority group status increases.

Value orientations also as hypothesized effect st dent achievement. In both instances confidence in the ability to manipulate the environment to ones advantage as indicated by activism-mastery scores results in higher levels of achievement in the school. In the case of Anglo-American students this effect is largely direct. The path coefficient is .14. Among Mexican American students the effect of this value orientation is to raise self-concept of ability with an attendant effect on achievement. The indirect effect in this case is .13.

Differences between the two groups of students in value orientations also exist. Mean scores on activism-mastery from Tables 1 and 2 reveal that Mexican-American students are more fatalistic about the future than their peers. This finding may very well indicate a hiatus between aspirations and expectations among Mexican-American students.

While there appears to be little difference between Anglo-American and Mexican-American families in the amount of achievement training that the child experiences in his home, overt achievement training appears to negatively effect achievement among both groups of students. Path coefficients for Anglo-American and Mexican-American students are ..07 and -.21, respectively. Apparently too much emphasis on attaining good grades in school



may be deleterious to the student's performance in school. At the same time independence training appears to enhance achievement but in quite different ways for the two ethnic groups. An increase in independence training results in increased self-concept of ability among Anglo-American students. This accounts for most of the indirect effect of .24 of this variable on achievement. The same emphasis on independent effort in Mexican-American families has a direct effect of .30 on achievement. These findings agree with those of Elder who found that independence training inculcates a desire within students to achieve and produces independent effort on their part to learn. 40

The large direct effect of this variable on achievement may reflect fundamental differences between the structure of the classroom and the Mexican-American family as suggested by Anderson <sup>141</sup> and Evans and Anderson. <sup>142</sup> In most classrooms the norm of independence is reinforced by confronting children with a sequence of tasks designed to encourage independent action on the student's part. <sup>143</sup> Students who have been socialized by their families to be somewhat independent perform well in classrooms structured in such a way as to require and reward independent student effort. <sup>144</sup> Since Mexican-American students receive considerably less independence training from their parents than their Anglo-American peers (see Tables 1 and 2), this variable may be a critical factor in how well they perform in school.

The degree to which English is spoken in the home also affects achievement both directly and indirectly. Achievement scores for Mexican-American students increase with the amount of English spoken in the home. Since these tests are administered in English and require a high degree of fluency on the part of the student, this result is not too surprising. The effect of this variable on self-concept inforces the effect of



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language on achievement. The student's self-concept of his own ability appears to be enhanced by increased use of English in the home. This is quite understandable since increased exposure to the language in which he is taught and tested in the school prepares him to compete at less of a disadvantage with his classmates. As his self confidence rises so do his scores on achievement tests.

Social class as predicted affects student achievement. The direct effect of this variable for both groups of students is positive. However, the direct effect is strongest among Anglo-American students. Indirect effects on achievement are also positive and of the same magnitude for the two ethnic groups. However, for Anglo-American students an increase in father's education, the measure of social class for this study, results in an increase in student's self-concept of ability. Independence training is enhanced by the father's educational level among Mexican-American students, however. In both cases higher levels of achievement result.

Male Anglo-American students out performed their female peers on the achievement test. The path coefficient is -.15 while indirect effects are negligible. Among Mexican-American junior high school students females out performed males. This appears to be a result of differential independence training since the effect in this case is totally indirect. Female Mexican-American children appear to receive a greater amount of independence training at this age than males. As a result their achievement in school in enhanced.

Schwartz's study of the Los Angeles public schools also found Mexican-American girls to be independent of family authority but to be more dependent upon peer approval when compared to Mexican-American boys and Anglo-American



boys and girls. <sup>46</sup> This lack of independence training that Mexican-American boys experience may have severe consequences for their academic performance expecially if it results in inhibiting their identification with new reference groups. Such identification is important for the acquisition of new values and behavior that is important to social mobility and to future achievement. <sup>47</sup>

#### Discussion

While the results of this study confirm the findings of previous research that family socialization practices strongly influence both achievement values and achievement, they indicate that the nature of this effect is quite different in the two ethnic groups. Direct attempts to encourage and reward greater academic effort on the part of the student appear to attenuate achievement if they have any effect at all, a conclusion that Elder also reached in studies of adolescents in North Carolina and Ohio. On the other hand active independence training results in significant gains in achievement for both ethnic groups.

Among both groups of junior high school students this is accomplished through changes in the students confidence in dealing with his physical and social environment. Students' feelings of mastery of this environment and its responsiveness to them appears to be greatly enhanced by parental independence training, especially for Anglo-American students. Also among this group of students their self-concept of their own ability in comparison to their peers increases as they are encouraged to do things on their own.

For Mexican-American students the results of independence training in the home are far more direct. Even when social class, language usage,



self-concept of ability and other variables are taken into account, independence training results in a significant increase in achievement. Earlier it was suggested that such training may be critical if Mexican-American students are to perform in classrooms structured in such a way as to require students to work largely on their own initiative.

It is important to note that while large differences in independence training exist between Mexican-American and Anglo-American families, the level of achievement training to which students are exposed is essentially the same for both groups. This finding suggests that attributing the lack of success of Mexican-American students in the school to a lack of motivation on the part of the students and their parents, as educators are prone to do, is seriously in error.

Socialization practices in turn appear to be strongly influenced by social class as other studies have found. It is interesting to note that while both independence training and achievement training increase with father's education, it is the former that is most affected in Mexican-American families and the latter that is most influenced in Anglo-American families.



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Figure 1: Path Model for Anglo-American Students<sup>a</sup>

<sup>a</sup>Path coefficients and the corresponding arrows for values of .10 or less have been omitted in order to simplify the diagram.



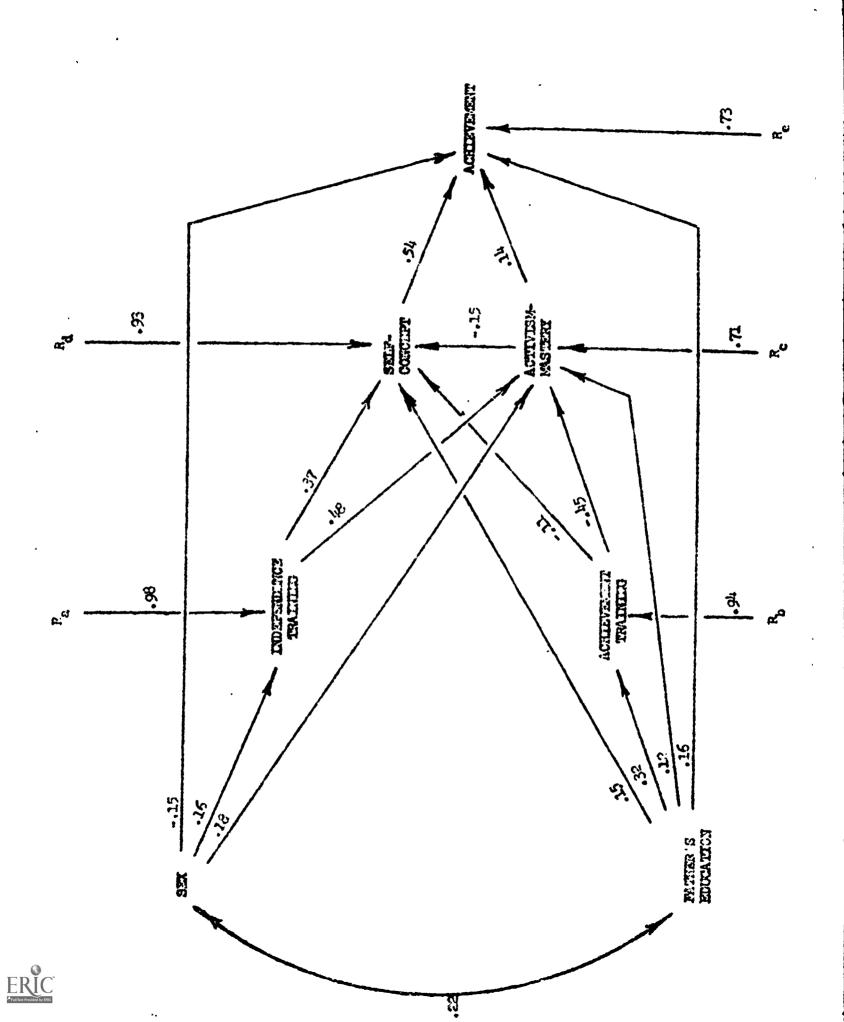


Figure 2: Path Model for Mexican-American Students<sup>a</sup>

<sup>a</sup>Path coefficients and the corresponding arrows for values of .10 or less have been omitted in order to simplify the diagram.



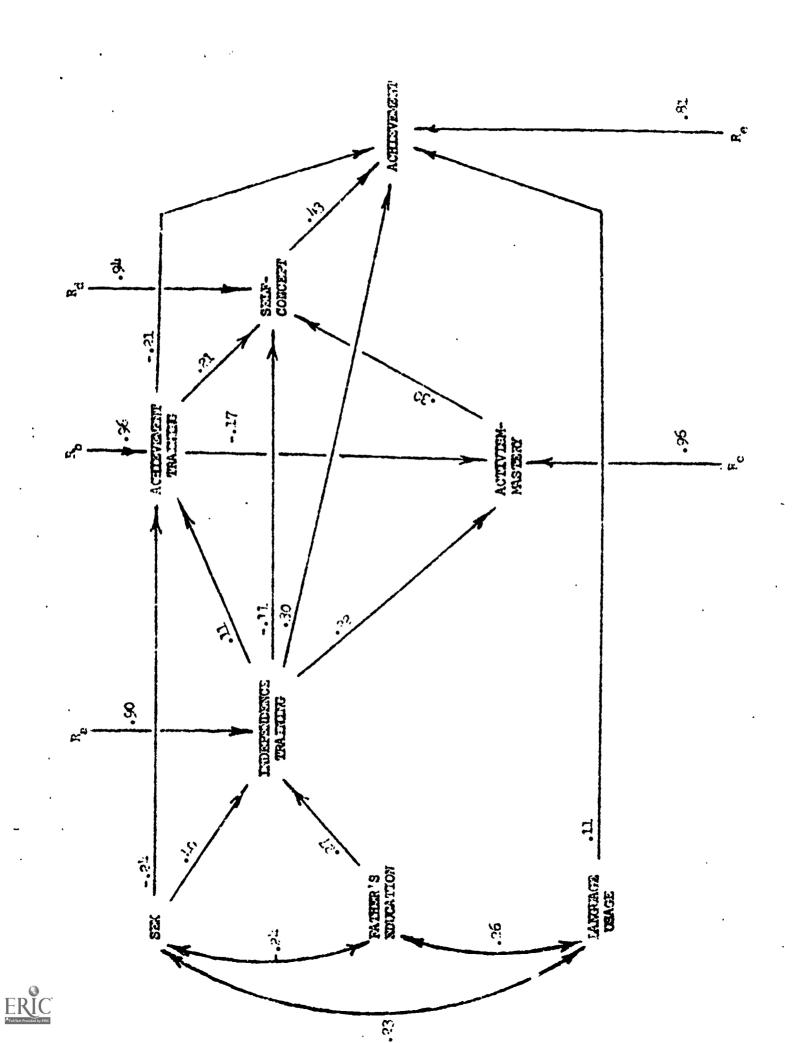


Table 1

MEANS, STANDARD DEVIATIONS, AND CORRELATIONS FOR ANGLO-AMERICANS

	_	-
- KI	=<	
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VARIABLE	x <sub>1</sub>	x <sub>2</sub>	x <sup>j4</sup>	x <sub>5</sub>	x <sup>6</sup>	x <sub>7</sub>	x <sub>8</sub>
Sex	1.00						
Zenther' Educati		1.00					
Indepen Trainin	dence .14	.06	1.00				
Achieve Trainin		.30	06	1.00			
6 Activis		03	.54	45	1.00		
7 Self-Co	oncept08	.16	.30	03	.08	1.00	
(8 Achieve	ement19	.26	.30	11	.22	.62	1.00
MEAN	0.55	5 <b>.1</b> 2	7.12	0.00	0.49	0.36	53.48
STANDARD DEVIATION	0.51	2.04	2.53	.94	0.77	0.80	10.61



Table 2

MEANS, STANDARD DEVIATIONS, AND

CORRELATIONS FOR MEXICAN-AMERICANS

N=69

VAR	IABLE	x <sub>1</sub>	<sup>x</sup> 2	х <sub>3</sub>	X <sub>4</sub>	<b>x</b> <sub>5</sub>	x <sub>6</sub>	<b>x</b> <sub>7</sub>	x <sub>8</sub>
x <sub>1</sub>	Sex :	1.00							
<sup>(2</sup>	Father's Education -	.24	1.00						
х <sub>3</sub>	Language Usage -	.23	.26	1.00					
X <sub>4</sub>	Independence Training	.32	.20	.08	1.00				
х <sub>5</sub>	Achievement Training -	:22	.17	.02	.05	1.00			
<b>х</b> 6	Activism- Mastery	.12	07	.06	.20	18	1.00		
x <sub>7</sub>	Self-Concept-	.09	.08	.12	03	.17	.24	1.00	
х <sub>8</sub>	Achievement	.06	.17	.21	.31	11	.24	.42	1.00
MRA	N	.49	1.87	53	5.88	02	27	20	41.71
	NDARD TATION	.50	1.66	.67	2.48	.96	.76	.86	10.38



Table 3

MULTIPLE CORRELATION COEFFICIENTS

AND PARTIAL REGRESSION COEFFICIENTS

ANGLO-AMERICANS

VARIABLE	INDEPENDENT	MULTIPLE	STANDARDIZED
***************************************	VARIABLE	CORRELATION	PARTIAL
		COEFFICIENT	REGRESSION
<del></del>			COEFFICIENT
Achievement			
	Sex	.68	15
	Father's		
	Education		.16
	Independence		
	Training		.07
	Achievement		
	Training		07
	Activism-		
	Mastery		.14
	Self-Concept		•54
Self-Concept	<b>a</b>	26	07
	Sex	.36	07
	Father's		15
	Education		.15
	Independence		27
	Training		•37
	Achievement		33
	Training		11
	Activism-		3.5
	Mastery		15
Activism-Mastery			
	Sex	.70	.18
	Father's	•	
	Education		.12
	Independence		
	Training		.48
	· Parental Stress		
	on Achievement		45



# Table 3 (Continued)

Achievement Train	ning		
	Sex Father's	•32	.10
	Education Independence		•32
	Training		10
Independence Trai	ining		
	Sex Father's	.15	.16
	Education		.10



Table 4

MULTIPLE CORRELATION COEFFICIENTS
AND PARTIAL REGRESSION COEFFICIENTS

MEXICAN-AMERICALS

DEPENDENT	INDEPENDENT	MULTIPLE	STANDARDIZED
VARIABLE	VARIABLE	CORRELATION	PARTIAL
		COEFFICIENT	REGRESSION
			COEFFICIENT
Achievement			
	Sex	•59	.00
	Father's Education		•09
	Language Usage		.11
	Independence Training	5	.30
	Achievement Training		21
	Activism-Mastery		.03
	Self-Concept		•43
Self-Concept			
	Sex	.36	01
	Father's Education		.06
	Language Usage		•09
	Independence Training	5	11
	Achievement Training		.21
	Activism-Mastery		<b>.</b> 30
Activism-Mastery	•		
	Sex	.29	.01
	Father's Education		10
	Language Usage		.07
	Independence Training	5	.22
	Achievement Training		17
Achievement Trai	ning		
	Sex	.28	24
	Father's Education	•	.10
	Language Usage		07
	Independence Training	5	.11
Independence Tra	ining		
<u>.</u>	Sex	• 44	.40
	Father's Education		.27
	Language Usage		.10

Table 5

EFFECT OF VARIABLES ON ACHIEVEMENT
ANGLO-AMERICANS

VARTABLE	TOTAL EFFECT	DIRECT EFFECT	INDIRECT EFFECT THROUGH OTHER VARIABLES	JOINT OR SPURIOUS EFFECTS
Self-				
Concept	.62	•55		.07
Activism- Mastery	.22	.14	08	.16
Achievement Training	11	07	09	.05
Independence Training	.30	.07	.25	02
Father's Education	.26	.16	.07	.03
Sex	19	15	.01	05



Table 6

EFFECT OF VARIABLES ON ACHIEVEMENT

MEXICAN-AMERICANS

TOTAL	DIRECT	INDIRECT	JOINT OR SPURIOUS
er i ev i	er rec 1	THROUGH OTHER VARIABLES	EFFECTS
-			
.42	.43		01
.24	.04	.13	.07
11	21	.06	.04
.31	.30	03	.04
.21	.11	.09	.01
.17	.09	.07	.01
06	- 00	<b>յ</b> ի	08
	.42 .24 11 .31	.42 .43 .24 .041121 .31 .30 .21 .11 .17 .09	EFFECT EFFECT THROUGH OTHER VARIABLES  .42 .4324 .04 .13 1121 .06  .31 .3003 .21 .11 .09  .17 .09 .07

